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Executive Director's Report

The U.S. Supreme Court is currently hearing arguments related to its review of three consolidated cases regarding the EPA's regulation of toxic emissions from power plants: Michigan v. Environmental Protection Agency, No. 14-46; Utility Air Regulatory Group v. Environmental Protection Agency, No. 14-47; and National Mining Association v. Environmental Protection Agency, No. 14-49.

At the heart of the issue is the contention by industry groups and several states that the EPA did not factor in, appropriately, the high cost of compliance related to meeting reduction goals for toxic substances such as mercury and other gases.

The costs traditionally associated with preventing air pollution are likely to come up again and again as the EPA moves forward with regulations that seek to limit how much mercury, or carbon dioxide, is being emitted into the atmosphere.

Believe it or not, we actually agree that the costs of pollution reduction are not be considered appropriately, but not because we want to see the regulations go away.

Rather, we argue that neither EPA nor industry accurately accounts for the very real, and very significant, revenue to be gained from emissions reductions by recycling carbon into a host of valuable products and commodities using algae technology.

Of course burying emissions (sequestering, using EPA terminology) is costly. But what if you could reuse those gases? Several ABO members are doing just this. Let's do a little "back of the envelope" math to show the implications of reusing CO₂ rather than burying it. We'll use Algenol Biofuels as an example.

The company states its algae technology, can convert 1 ton of algae into 144 gallons of fuel. Even at today's low fuel prices (~\$2.00/gal), that equates to \$288 per ton of CO₂. As fuel costs go up, so does the value of algae-derived fuels from waste CO₂.

A typical power plant produces about 3.5 million tons of CO₂ per year. At \$288 per ton, that's slightly more than \$1 billion a year in additional revenue.

Even if you subtract capital expenses and operating expenses of

\$100 million (which is extremely aggressive), a typical utility could earn \$900 million per year. Every year. All while reducing overall emissions by about 60 percent.

Even if you assume that algae technology could only convert 30% of emissions, you're still looking at about \$300 million per year after paying off capital expenses.

There are about 500 coal-fired power plants in the US. If even half of those incorporated algae conversion technology at the rates above, we're looking at a \$75 billion dollar opportunity at the low end and a \$225 billion dollar opportunity at the high end.

ABO continues to make the argument far and wide that we're looking at the problem of carbon emissions the wrong way. CO2 is not a problem - it's an opportunity.

Power generation facilities today are literally blowing revenue up in smoke - revenue that could be used to offset the costs of emissions compliance at the very least, create new income streams to reduce ratepayer burdens, and at the very best create new jobs and economic development in the regions where they operate.

So yes, the EPA didn't accurately factor in the cost of compliance - because it's actually a profit.

Matt Carr

Executive Director
Algae Biomass Organization

Legislative Update

ABO has been busy staying on top of a number of policy discussions that will have impacts on the algae industry:

On federal appropriations discussions, ABO has met with numerous offices in the House and Senate to share our funding priorities for the next federal budget. Multiple offices in both chambers indicated they would include ABO's suggestions in FY16 request letters to budget negotiators.

On tax discussions, ABO has submitted comments for the Senate's Tax Reform Working Groups that once again call on Congress to provide long-term, stable support for algae biofuels and bioproducts. The comments also call for inclusion of algae and other carbon capture and utilization (CCU) technologies under existing credits for carbon capture and geologic sequestration (CCS).

Algae Biomass Summit 2015 Mary Rosenthal Memorial Student Travel Grants

[Multi-Year Program Plan](#)

[Algae Foundation](#)

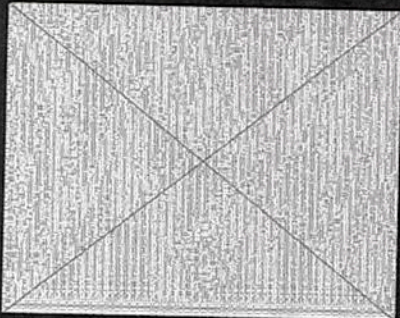
[9th Annual Algae Biomass Summit](#)

application deadline is May 15, 2015.

The

[More information is available on the ASO blog.](#)

Reserve Your Place at the 2015 Algae Biomass Summit



[Biomass Summit](#)

[2015 Algae](#)

[Click here to learn how you can show your leadership in the industry and support the Summit!](#)

ABO Member Discounts at ACORE Events
[contact information are available here.](#)

[Full details and](#)

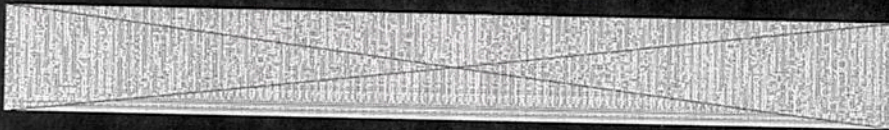
[Click here to submit your abstract!](#)

[Barb Scheevel](#)

[ACORE's National Renewable Energy Policy Summit](#)

[12th Annual Renewable Energy Finance Forum-Wall Street](#)

ACI's European Algae Biomass Conference, April 22-23



[ACI's European Algae Biomass 2015](#)

[download the brochure.](#)

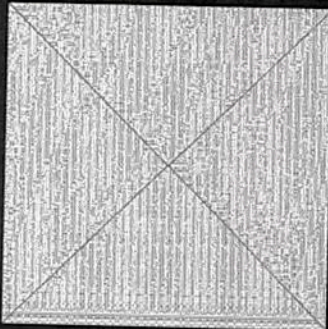
ATP3 Algae Education Workshop, May 18-22

Bio World Congress, June 19-22

BIO World Congress on Industrial Biotechnology

Early bird registration expires June 1st!

The 5th International Conference on Algal Biomass, Biofuels and Bioproducts



<http://www.algalbbp.com/>

European Algae Association Workshop: Algae Biofuels LCA

<http://www.algaecluster.eu/>

Global Midwest Alliance: "Integrating Sustainable Energy in Global Development"

<https://ec.europa.eu/eusurvey/runner/LCAAigaBioproducts2015>

[Development](#)

[Integrating Sustainable Energy in Global](#)

[here](#)

New Members

Member News

Algae Biomass Organization Welcomes Joule Unlimited and Parker Hannifin As New Members

Flax, chai, algae show potential in omega-3 market

Business Briefs

How Scientists Are Engineering Algae To Fuel Your Car And Cure Cancer

Can Algae Help The Meat Industry Cut Back On Antibiotics?

Major algae producer to test BlueOcean's CO2 infusion technology

Industry News

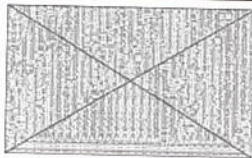
Editorial: Bright future ahead for local high school student

Join ABO

Novel food clearance for micro-algae *Schizochytrium* sp.

Algae-derived fatty acids show promise for animal reproductive performance: Alltech

Algae industry moves beyond research to commercialization



As we continue to promote the development of commercial markets for sustainable products derived from algae, we invite you to join us in our efforts by becoming a member of the Algae Biomass Organization. As the trade association for the industry, we act as a voice for the industry to the public, media and policy makers while also representing individuals and companies across the value chain. As an ABO member, you'll have access to a wide range of services and information, including:

- Representation in ABO's policy initiatives with policy makers in Congress and at key federal agencies, including the USDA, EPA and DOE;
- Regular industry updates and issue alerts via member-only communications;
- Opportunity to participate in ABO committees;
- Results from our annual industry survey;
- Access and input to the ABO's Technical Standards documents;
- Participation in members-only events, webinars, briefings and networking opportunities;
- Discounted registration for ABO-hosted industry events.

For questions about membership in the Algae Biomass Organization and its benefits, please feel free to visit our [website](#) or call toll-free at 1-877-531-5512.

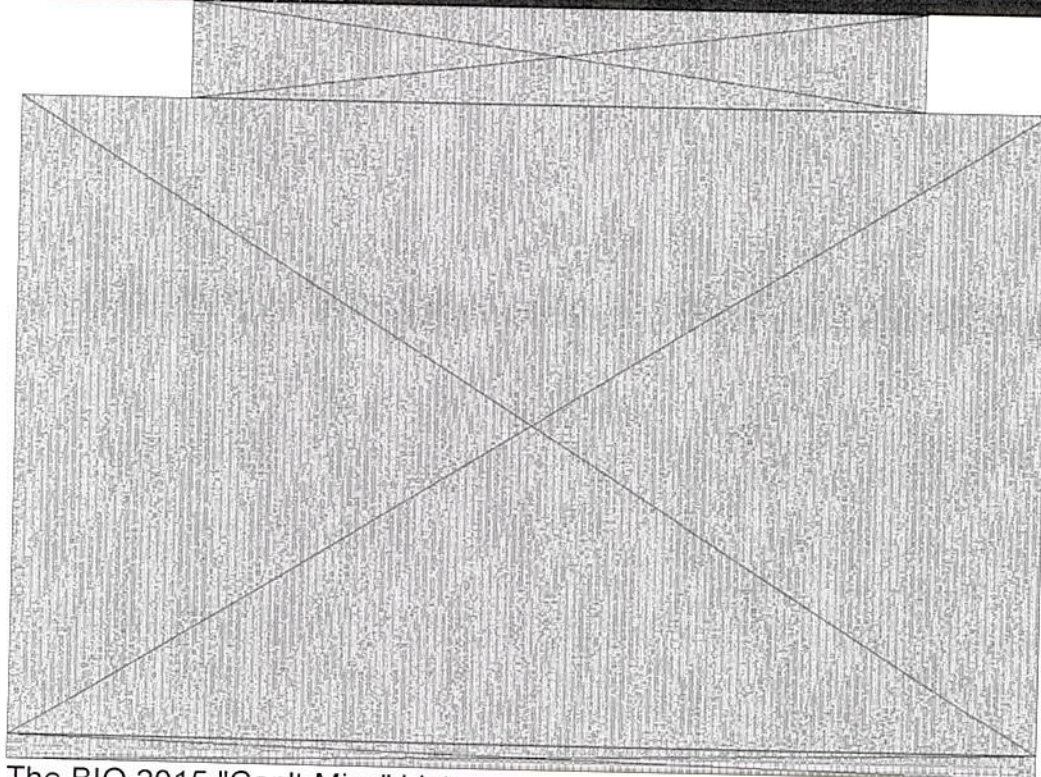
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Algae Biomass Organization | PO Box 369 | 125 St. Paul Street | Preston, MN 55965

To: Larson, Robert[larson.robert@epa.gov]
From: Wendy Siminski
Sent: Thur 4/16/2015 4:13:43 AM
Subject: BIO Kickoff Concert Announced + Last Chance to Save






Save \$400 when you register by April 23



The BIO 2015 "Can't-Miss" List

Excitement is building for the largest biotech gathering of the year and your chance to save on registration ends April 23. Here are several new highlights in our Convention Access & Partnering package that have the industry talking:

	Monday Kickoff Concert Featuring Boyz II Men, The Roots and Kool & The Gang
	Monday - Thursday: education Industry leaders including Dr. Francis Collins, Dr. Carl June, Katrine Bosley and more forecast the future of biotech
	Tuesday - Thursday: partnering World's largest biotech and pharma partnering event facilitating 29,000+ meetings in BIO's new One-on-One Partnering™ System
	Tuesday - Thursday: BIO Exhibition <ul style="list-style-type: none">• 2 Floors of Exhibits, 40+ Pavilions and 8 Focus Zones• Digital Health Zone, Academic Zone, Company Presentations and the Innovation Zone featuring NIH and NSF SBIR-funded companies
	Monday highlights

	<p>Business Development Courses & Attendee Orientation</p> <p>Sessions on Venture Capitalism, Drug Development, Innovation and the Science of Biotech</p>
	<p>Keynote featuring Tom Brokaw, Awarding Winning Journalist</p> <p>NASA Exhibit, Headshot Lounge, Cheesesteak War and many more surprises in the BIO Metropolis & BIO Exhibition</p>
	<p>Keynote featuring Dr. Eric Topol, the Dean of Digital Medicine</p> <p>Reading Terminal Reception and BIO Exhibitor Hospitality Receptions – an attendee favorite!</p>
	<p>MIT Hacking Medicine's Idea Design Studio</p> <p>Join the largest industry recruiting event–BIO Career Fair</p>
	<p>Register for Convention Access & Partnering to access all these events</p> <p>Register Now</p>

Register & Upgrade

Upgrade your registration to Convention Access & Partnering to access 3,000 global companies and thousands of C-level thought leaders via BIO's new One-on-One Partnering™ System.

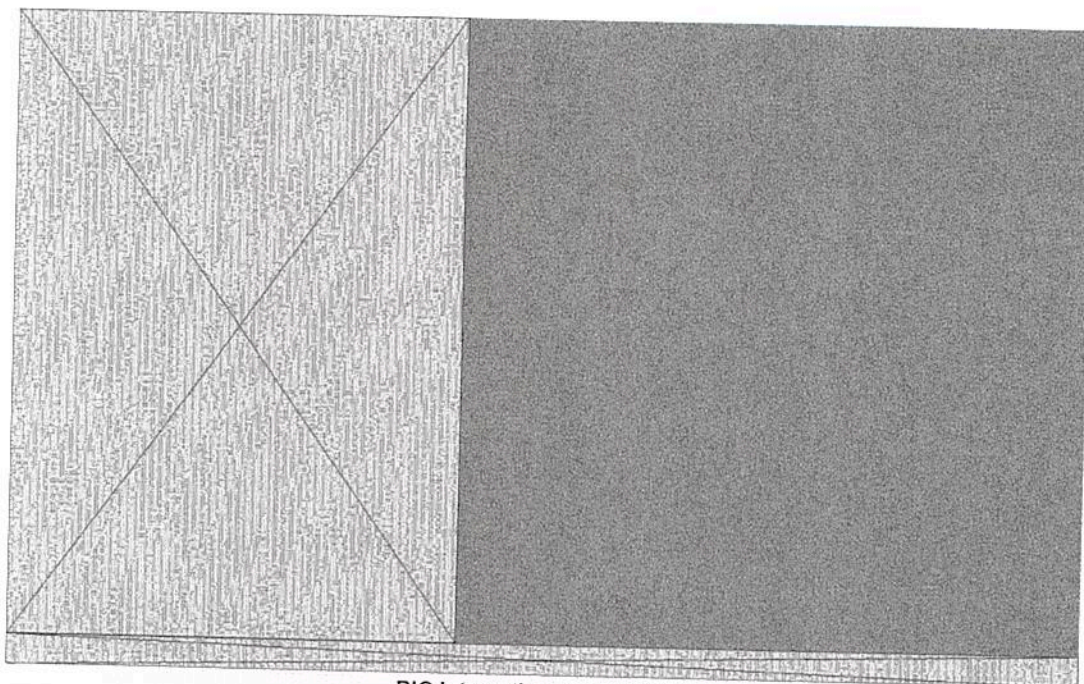
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Increase Your ROI

BIO is completely changing the way that your team does business! BIO's new One-on-One Partnering™ system will dramatically reduce your business development costs while increasing your partnering effectiveness year-round.

[Learn how »](#)

BIO International Convention



BIO International Convention
June 15-18, 2015 | Philadelphia, PA

Biotechnology Industry Organization | 1201 Maryland Ave., SW, Ste. 900 | Washington, D.C. 20024

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To: Larson, Robert[larson.robert@epa.gov]
From: Wendy Siminski
Sent: Tue 4/14/2015 5:31:13 PM
Subject: Vote for the Buzz of BIO

Vote for your favorite innovative biotech company

Vote for the Buzz of BIO!

Vote for your favorite innovative biotech company in the *Pipelines of Promise* and *Technologies of Tomorrow* categories.

The company with the most votes in each category will win one complimentary Convention Access & Partnering pass as well as a Company Presentation in front of industry leaders.

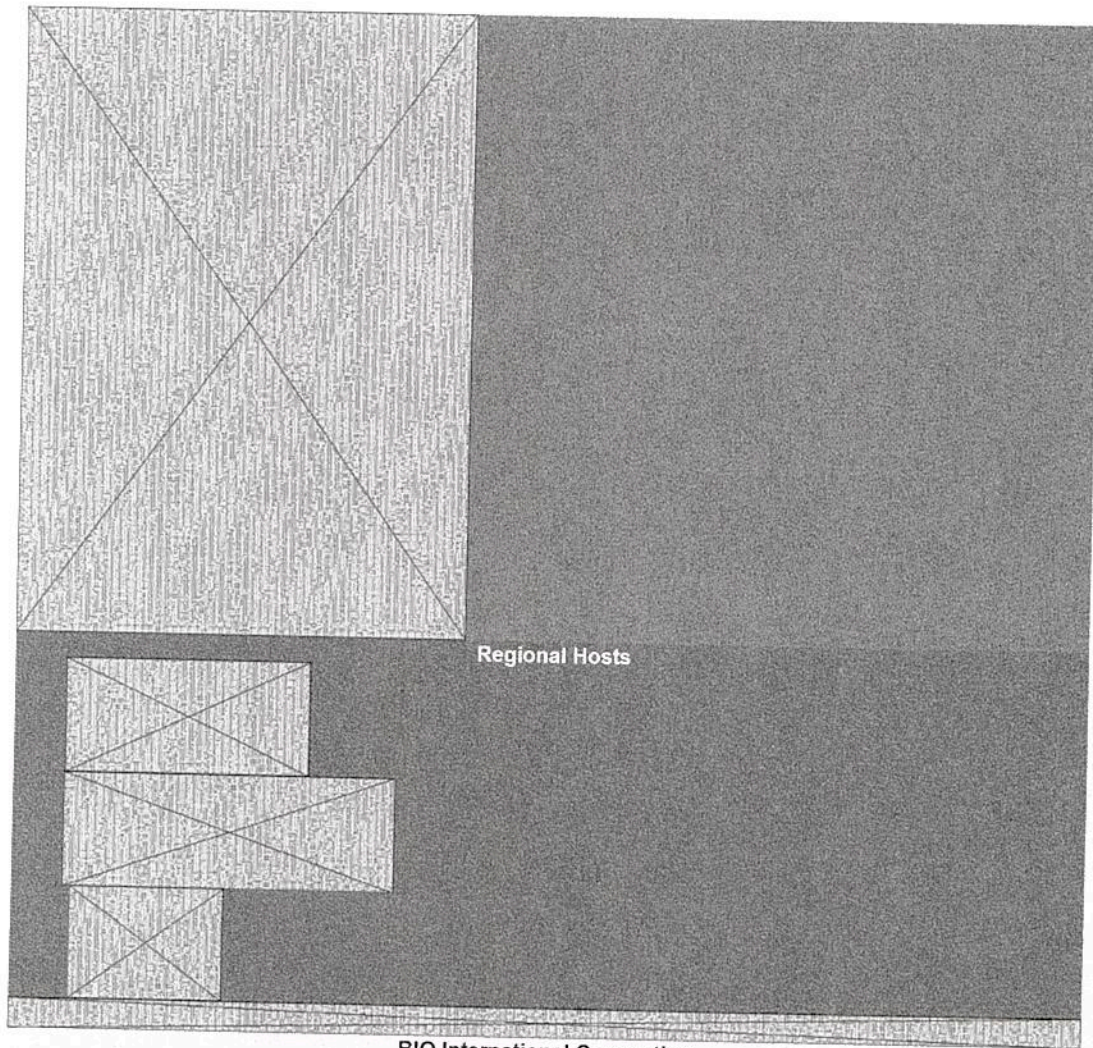
Act fast! Voting closes Tuesday, April 21 at 5:00 PM ET.

Register & Upgrade

Upgrade your registration to Convention Access & Partnering to access 3,000 global companies and thousands of c-level thought leaders via BIO's New One-on-One Partnering System. [Register »](#)

Increase Your ROI

BIO is completely changing the way that your team does business! BIO's new One-on-One Partnering™ system will dramatically reduce your business development costs while increasing your partnering effectiveness year-round. [Learn how »](#)



Regional Hosts

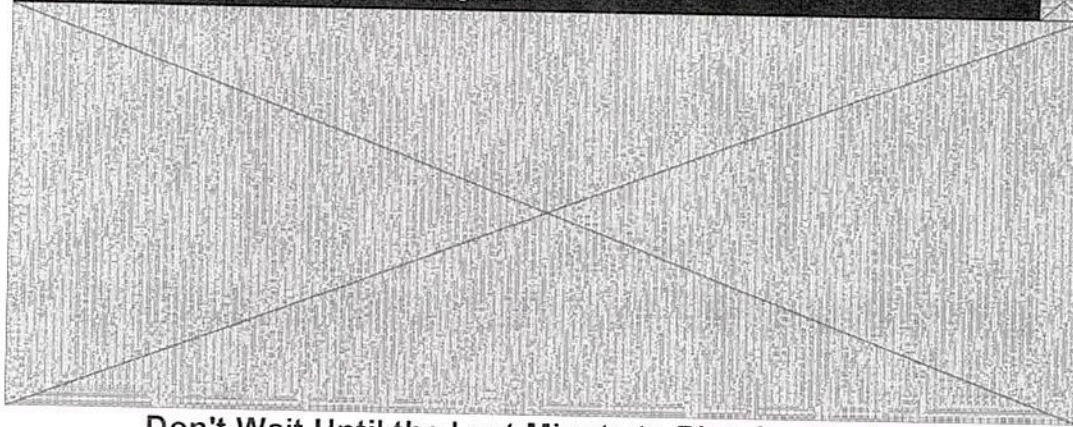
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To: Larson, Robert[larson.robert@epa.gov]
From: BIO World Congress on Industrial Biotechnology
Sent: Tue 4/14/2015 11:02:17 AM
Subject: Don't Wait: Less Than 90 Days Until the Conference

Take Action Now: Secure Travel Plans, Hotel Room, Registration



Don't Wait Until the Last Minute to Plan for Montreal

The BIO World Congress on Industrial Biotechnology taking place July 19-22, 2015 in Montreal is less than 90 days out. Don't miss out on being a part of the must-attend event for industrial biotechnology professionals.

Remember summer marks Montreal's famous festival season and "Just for Laughs" comedy festival will be taking place during BIO World Congress. Also, you can be part of two conferences in one trip by attending BioFuelNet's Advanced Biofuels Symposium July 22-24 at the Hotel Omni.

Your Checklist:

[View the program and attending organizations](#)

[Consider spending more time in Montreal-](#)

[Register for the conference](#)

[Book your hotel room at a discounted rate](#)

[Book your flight](#)

[Secure your visa-](#) If you are an international attendee an invitation letter will be automatically generated for you at the end of the online conference registration

[Register Now](#)

Add to Your calendar

Register Now

View Schedule

Invite a Colleague

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As of March 5, 2015

Contact worldcongress@bio.org for more information on branding opportunities

For more information, go to bio.org/worldcongress

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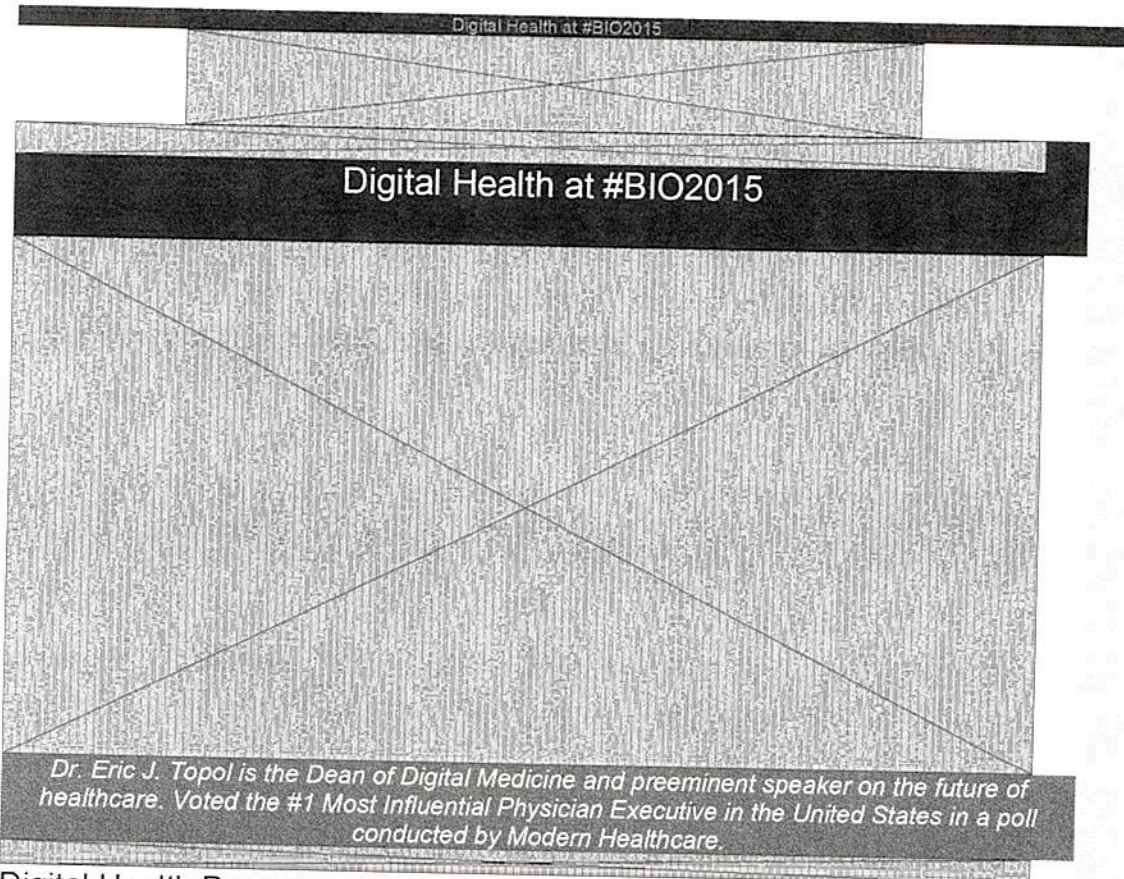
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To: Larson, Robert[larson.robert@epa.gov]
From: Sarah Arth
Sent: Thur 4/9/2015 8:17:33 PM
Subject: Dr. Eric Topol to Keynote #BIO2015 + Digital Health Program Announced



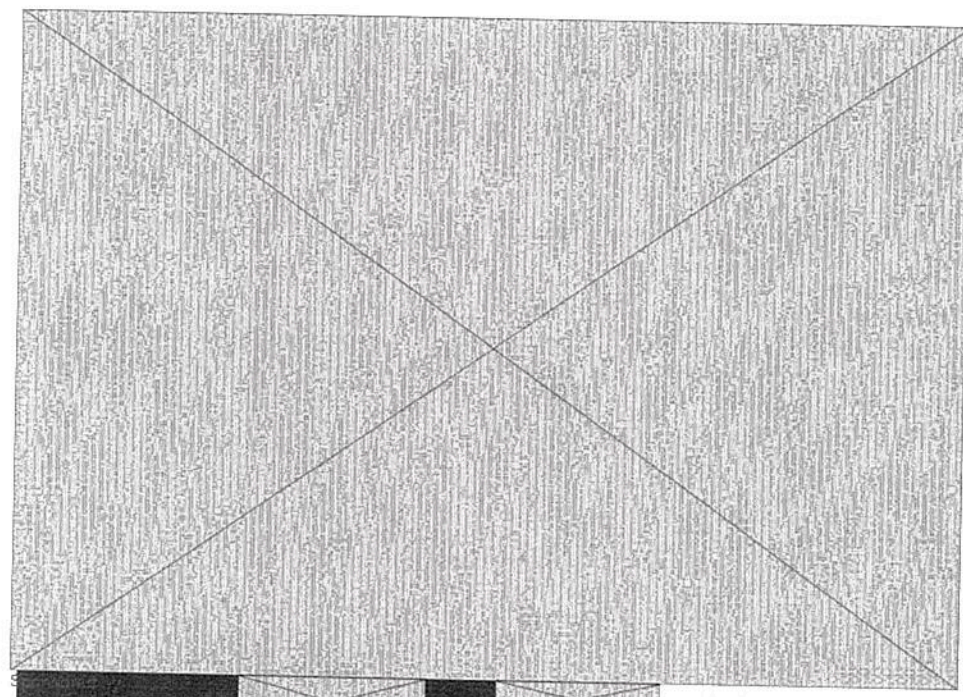
Digital Health Program

In partnership with WLSA, the [Digital Health Program](#) will explore the intersection of digital health, biotech and pharma. Industry thought leaders, stakeholders and innovators will discuss the latest developments in digital health and its role in drug development, clinical trials, medication compliance, mobile prescription therapies, new business models, big data and much more.

Digital Health Zone

Visit the Digital Health Zone to discover cost effective, patient-centric solutions digital health companies are providing to aid in the drug development process, prescription management, medication compliance and more. See live demos of new and exciting technologies in the App MIT Hacking Medicine's Idea Design Studio

As part of the Digital Health Program, BIO is pleased to present the [Idea Design Studio](#), hosted by MIT H@cking Medicine, on Thursday June 18, 8:30am - 12:30pm. Join us for a 4-hour experience that takes participants from an idea to actionable next-steps for starting a digital



For each day [Contact us](#) to exhibit in the [Digital Health Zone](#).

[Download the 2015 Digital Health eBook](#)

Explore recent digital health moves by pharma and biotech companies: how pharma companies are leveraging mobile and digital health tools to engage patients and how digital health has impacted clinical trial management.

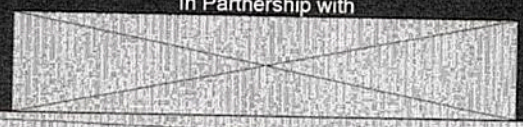
[Download the eBook](#)

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BIO International Convention

The [BIO International Convention](#) is the world's largest biotechnology conference and exhibition. Join 15,000 of the most influential biotech and pharma players from 65 countries to take advantage of powerful business partnering, networking and educational programming.

In Partnership with



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Meekins, Tanya

From: Christina Martin <cmartin@ethanolrfa.org>
Sent: Thursday, February 21, 2013 9:44 AM
To: Larson, Robert
Subject: Rising gas prices, AAA and Ethanol savings

Given that gas prices have been climbing for more than 32 days to a four-month high, AAA might want to reconsider its recent attacks on ethanol. Please see a blog post from RFA CEO Bob Dinneen entitled "As Prices at the Pump Go Up, Up, Up American Ethanol is the Motorist's Friend."

Dinneen writes, "From now through Memorial Day, which kicks off the summer driving season, gasoline prices will likely keep going up, up, up. Over the past five years, gasoline prices have risen an average of \$0.51 per gallon between New Year's Day and the Memorial Day weekend. That means we could be looking at prices well above \$4 per gallon as summer begins and families hit the road for vacation.

"America's growing use of domestically-produced ethanol reduced wholesale gasoline prices by an average of \$1.09 per gallon in 2011, the most recent year for which complete statistics are available, according to a recent study conducted by economics professors at the University of Wisconsin and Iowa State University for the Center for Agricultural Research and Rural Development (CARD)."

After reviewing the positive impacts ethanol is having on both gasoline prices as well as dependence on foreign oil, Dinneen concludes:

"All of this is something members of Congress need to consider as they assess legislation promoted by the oil industry to repeal or reform the Renewable Fuels Standard (RFS). The RFS is working to expand domestic energy supply, encourage investment in new technologies, and reduce gasoline prices at the pump. Don't mess with the RFS!"

Read the full blog post here: <http://www.ethanolrfa.org/feb2013gasprices>

This email was sent to larson.robert@epa.gov.

If you are no longer interested you can unsubscribe instantly:

<http://renewablefuelsassociation.createsend1.com/t/y-u-jkdiidy-jrjijyurh-r/>